

## SEQUENCE LISTING

<110> Wu Dr., Keqiang  
 Miki Dr., Brian L  
 Tian Dr., Lining  
 Brown Dr., Dan

<120> Repressing Gene Expression in Plants

<130> 08-883779EP

<140>

<141>

<160> 11

<170> PatentIn Ver. 2.0

<210> 1

<211> 1807

<212> DNA

<213> Arabidopsis thaliana

<400> 1

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&lt;210&gt; 2

&lt;211&gt; 501

&lt;212&gt; PRT

&lt;213&gt; Arabidopsis thaliana

&lt;400&gt; 2

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Arg Lys Val Cys Tyr Phe Tyr Asp Pro Glu Val Gly Asn Tyr Tyr Tyr
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Gly Gln Gly His Pro Met Lys Pro His Arg Ile Arg Met Thr His Ala
  35             40             45

Leu Leu Ala His Tyr Gly Leu Leu Gln His Met Gln Val Leu Lys Pro
  50             55             60

Phe Pro Ala Arg Glu Arg Asp Leu Cys Arg Phe His Ala Asp Asp Tyr
  65             70             75             80

Val Ser Phe Leu Arg Ser Ile Thr Pro Glu Thr Gln Gln Asp Gln Ile
          85             90             95

Arg Gln Leu Lys Arg Phe Asn Val Gly Glu Asp Cys Pro Val Phe Asp
 100             105             110

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Gly Leu Tyr Ser Phe Cys Gln Thr Tyr Ala Gly Gly Ser Val Gly Gly  
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Ser Val Lys Leu Asn His Gly Leu Cys Asp Ile Ala Ile Asn Trp Ala  
130 135 140

Gly Gly Leu His His Ala Lys Lys Cys Glu Ala Ser Gly Phe Cys Tyr  
145 150 155 160

Val Asn Asp Ile Val Leu Ala Ile Leu Glu Leu Leu Lys Gln His Glu  
165 170 175

Arg Val Leu Tyr Val Asp Ile Asp Ile His His Gly Asp Gly Val Glu  
180 185 190

Glu Ala Phe Tyr Ala Thr Asp Arg Val Met Thr Val Ser Phe His Lys  
195 200 205

Phe Gly Asp Tyr Phe Pro Gly Thr Gly His Ile Gln Asp Ile Gly Tyr  
210 215 220

Gly Ser Gly Lys Tyr Tyr Ser Leu Asn Val Pro Leu Asp Asp Gly Ile  
225 230 235 240

Asp Asp Glu Ser Tyr His Leu Leu Phe Lys Pro Ile Met Gly Lys Val  
245 250 255

Met Glu Ile Phe Arg Pro Gly Ala Val Val Leu Gln Cys Gly Ala Asp  
260 265 270

Ser Leu Ser Gly Asp Arg Leu Gly Cys Phe Asn Leu Ser Ile Lys Gly  
275 280 285

His Ala Glu Cys Val Lys Phe Met Arg Ser Phe Asn Val Pro Leu Leu  
290 295 300

Leu Leu Gly Gly Gly Gly Tyr Thr Ile Arg Asn Val Ala Arg Cys Trp  
305 310 315 320

Cys Tyr Glu Thr Gly Val Ala Leu Gly Val Glu Val Glu Asp Lys Met

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325

330

335

Pro Glu His Glu Tyr Tyr Glu Tyr Phe Gly Pro Asp Tyr Thr Leu His  
340 345 350

Val Ala Pro Ser Asn Met Glu Asn Lys Asn Ser Arg Gln Met Leu Glu  
355 360 365

Glu Ile Arg Asn Asp Leu Leu His Asn Leu Ser Lys Leu Gln His Ala  
370 375 380

Pro Ser Val Pro Phe Gln Glu Arg Pro Pro Asp Thr Glu Thr Pro Glu  
385 390 395 400

Val Asp Glu Asp Gln Glu Asp Gly Asp Lys Arg Trp Asp Pro Asp Ser  
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Asp Met Asp Val Asp Asp Asp Arg Lys Pro Ile Pro Ser Arg Val Lys  
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Arg Glu Ala Val Glu Pro Asp Thr Lys Asp Lys Asp Gly Leu Lys Gly  
435 440 445

Ile Met Glu Arg Gly Lys Gly Cys Glu Val Glu Val Asp Glu Ser Gly  
450 455 460

Ser Thr Lys Val Thr Gly Val Asn Pro Val Gly Val Glu Glu Ala Ser  
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Val Lys Met Glu Glu Glu Gly Thr Asn Lys Gly Gly Ala Glu Gln Ala  
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<210> 3

<211> 1800

<212> DNA

<213> Arabidopsis thaliana

&lt;400&gt; 3

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&lt;210&gt; 4

&lt;211&gt; 471

&lt;212&gt; PRT

<213> *Arabidopsis thaliana*

&lt;400&gt; 4

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Tyr Tyr Gly Gln Gly His Pro Met Lys Pro His Arg Ile Arg Met Ala  
35 40 45

His Ser Leu Ile Ile His Tyr His Leu His Arg Arg Leu Glu Ile Ser  
50 55 60

Arg Pro Ser Leu Ala Asp Ala Ser Asp Ile Gly Arg Phe His Ser Pro  
65 70 75 80

Glu Tyr Val Asp Phe Leu Ala Ser Val Ser Pro Glu Ser Met Gly Asp  
85 90 95

Pro Ser Ala Ala Arg Asn Leu Arg Arg Phe Asn Val Gly Glu Asp Cys  
100 105 110

Pro Val Phe Asp Gly Leu Phe Asp Phe Cys Arg Ala Ser Ala Gly Gly  
115 120 125

Ser Ile Gly Ala Ala Val Lys Leu Asn Arg Gln Asp Ala Asp Ile Ala  
130 135 140

Ile Asn Trp Gly Gly Gly Leu His His Ala Lys Lys Ser Glu Ala Ser  
145 150 155 160

Gly Phe Cys Tyr Val Asn Asp Ile Val Leu Gly Ile Leu Glu Leu Leu  
165 170 175

Lys Met Phe Lys Arg Val Leu Tyr Ile Asp Ile Asp Val His His Gly  
180 185 190

Asp Gly Val Glu Glu Ala Phe Tyr Thr Thr Asp Arg Val Met Thr Val  
195 200 205

Ser Phe His Lys Phe Gly Asp Phe Phe Pro Gly Thr Gly His Ile Arg  
210 215 220

Asp Val Gly Ala Glu Lys Gly Lys Tyr Tyr Ala Leu Asn Val Pro Leu  
225 230 235 240

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Asn Asp Gly Met Asp Asp Glu Ser Phe Arg Ser Leu Phe Arg Pro Leu  
245 250 255

Ile Gln Lys Val Met Glu Val Tyr Gln Pro Glu Ala Val Val Leu Gln  
260 265 270

Cys Gly Ala Asp Ser Leu Ser Gly Asp Arg Leu Gly Cys Phe Asn Leu  
275 280 285

Ser Val Lys Gly His Ala Asp Cys Leu Arg Phe Leu Arg Ser Tyr Asn  
290 295 300

Val Pro Leu Met Val Leu Gly Gly Glu Gly Tyr Thr Ile Arg Asn Val  
305 310 315 320

Ala Arg Cys Trp Cys Tyr Glu Thr Ala Val Ala Val Gly Val Glu Pro  
325 330 335

Asp Asn Lys Leu Pro Tyr Asn Glu Tyr Phe Glu Tyr Phe Gly Pro Asp  
340 345 350

Tyr Thr Leu His Val Asp Pro Ser Pro Met Glu Asn Leu Asn Thr Pro  
355 360 365

Lys Asp Met Glu Arg Ile Arg Asn Thr Leu Leu Glu Gln Leu Ser Gly  
370 375 380

Leu Ile His Ala Pro Ser Val Gln Phe Gln His Thr Pro Pro Val Asn  
385 390 395 400

Arg Val Leu Asp Glu Pro Glu Asp Asp Met Glu Thr Arg Pro Lys Pro  
405 410 415

Arg Xaa Trp Ser Gly Thr Ala Thr Tyr Glu Ser Asp Ser Asp Asp Asp  
420 425 430

Asp Lys Pro Leu His Gly Tyr Ser Cys Arg Gly Gly Ala Thr Thr Asp  
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Arg Asp Ser Thr Gly Glu Asp Glu Met Asp Asp Asp Asn Pro Glu Pro

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Asp Val Asn Pro Pro Ser Ser

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&lt;210&gt; 5

&lt;211&gt; 939

&lt;212&gt; DNA

&lt;213&gt; Arabidopsis thaliana

&lt;400&gt; 5

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&lt;210&gt; 6

&lt;211&gt; 245

&lt;212&gt; PRT

&lt;213&gt; Arabidopsis thaliana

&lt;400&gt; 6

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1

5

10

15

Thr Pro Glu Glu Gly Ile Leu Ile His Val Ser Gln Ala Ser Leu Gly

20

25

30



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Glu Cys Lys Asn Lys Lys Gly Glu Phe Val Pro Leu His Val Lys Val  
35 40 45

Gly Asn Gln Asn Leu Val Leu Gly Thr Leu Ser Thr Glu Asn Ile Pro  
50 55 60

Gln Leu Phe Cys Asp Leu Val Phe Asp Lys Glu Phe Glu Leu Ser His  
65 70 75 80

Thr Trp Gly Lys Gly Ser Val Tyr Phe Val Gly Tyr Lys Thr Pro Asn  
85 90 95

Ile Glu Pro Gln Gly Tyr Ser Glu Glu Glu Glu Glu Glu Glu Glu  
100 105 110

Val Pro Ala Gly Asn Ala Ala Lys Ala Val Ala Lys Pro Lys Ala Lys  
115 120 125

Pro Ala Glu Val Lys Pro Ala Val Asp Asp Glu Glu Asp Glu Ser Asp  
130 135 140

Ser Asp Gly Met Asp Glu Asp Asp Ser Asp Gly Glu Asp Ser Glu Glu  
145 150 155 160

Glu Glu Pro Thr Pro Lys Lys Pro Ala Ser Ser Lys Lys Arg Ala Asn  
165 170 175

Glu Thr Thr Pro Lys Ala Pro Val Ser Ala Lys Lys Ala Lys Val Ala  
180 185 190

Val Thr Pro Gln Lys Thr Asp Glu Lys Lys Lys Gly Gly Lys Ala Ala  
195 200 205

Asn Gln Ser Pro Lys Ser Ala Ser Gln Val Ser Cys Gly Ser Cys Lys  
210 215 220

Lys Thr Phe Asn Ser Gly Asn Ala Leu Glu Ser His Asn Lys Ala Lys  
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His Ala Ala Ala Lys  
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 <213> Arabidopsis thaliana

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 <212> PRT  
 <213> Arabidopsis thaliana

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 20 25 30

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Cys Thr Val Lys Ser Gly Glu Ser Val Val Leu Ser Val Thr Val Gly  
35 40 45

Gly Ala Lys Leu Val Ile Gly Thr Leu Ser Gln Asp Lys Phe Pro Gln  
50 55 60

Ile Ser Phe Asp Leu Val Phe Asp Lys Glu Phe Glu Leu Ser His Ser  
65 70 75 80

Gly Thr Lys Ala Asn Val His Phe Ile Gly Tyr Lys Ser Pro Asn Ile  
85 90 95

Glu Gln Asp Asp Phe Thr Ser Ser Asp Asp Glu Asp Val Pro Glu Ala  
100 105 110

Val Pro Ala Pro Ala Pro Thr Ala Val Thr Ala Asn Gly Asn Ala Gly  
115 120 125

Ala Ala Val Val Lys Ala Asp Thr Lys Pro Lys Ala Lys Pro Ala Glu  
130 135 140

Val Lys Pro Ala Glu Glu Lys Pro Glu Ser Asp Glu Glu Asp Glu Ser  
145 150 155 160

Asp Asp Glu Asp Glu Ser Glu Glu Asp Asp Asp Ser Glu Lys Gly Met  
165 170 175

Asp Val Asp Glu Asp Asp Ser Asp Asp Asp Glu Glu Glu Asp Ser Glu  
180 185 190

Asp Glu Glu Glu Glu Glu Thr Pro Lys Lys Pro Glu Pro Ile Asn Lys  
195 200 205

Lys Arg Pro Asn Glu Ser Val Ser Lys Thr Pro Val Ser Gly Lys Lys  
210 215 220

Ala Lys Pro Ala Ala Ala Pro Ala Ser Thr Pro Gln Lys Thr Glu Lys  
225 230 235 240

Lys Lys Gly Gly His Thr Ala Thr Pro His Pro Ala Lys Lys Gly Gly

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245

250

255

Lys Ser Pro Val Asn Ala Asn Gln Ser Pro Lys Ser Gly Gly Gln Ser  
260 265 270

Ser Gly Gly Asn Asn Asn Lys Lys Pro Phe Asn Ser Gly Lys Gln Phe  
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Gly Gly Ser Asn Asn Lys Gly Ser Asn Lys Gly Lys Gly Lys Gly Arg  
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<213> Artificial Sequence

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28

<210> 11

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<400> 11

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29

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